Appendix 4: Methodologic quality of the included studies of school-based physical-activity interventions

Study	Criteria defined*	Intervention clearly described	Basis for intervention†	Power calculation‡	Method of randomization described	Blinded outcome assessment	Baseline characteristics similar	Attrition rate described	Statistical analysis§
Burke et al. ³⁴	No	Yes	No	Yes	Yes	No	Not described	Yes	No
Carrel et al.41	Yes	Yes	No	No	Yes	No	Yes	Yes	Yes
Chavarro et al.35	Yes	Yes	Yes	No	Yes	No	Yes	Yes	Yes
Coleman et al. ⁴⁸	No	Yes	Yes	No	No	No	More girls at risk for overweight in intervention group	Yes	Yes
Donnelly et al.46	No	Yes	Yes	Yes	NA	No	Yes	No	Yes
Hopper et al. ³⁰	No	Yes	Yes	No	No	No	Not described	No	Yes
Kain et al. ⁴²	Yes	Yes	Yes	Done post hoc	NA	No	More obese children in intervention group	Yes¶	Yes
Linden et al. ³⁶	Yes	Yes	No	No	NA	No	Yes	Yes	Yes
Lohman et al.45	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes
Luepker et al. ³¹	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes
MacKelvie et al.43	Yes	Yes	No	Yes	Yes	No	Yes	Yes	Yes
MacKelvie et al.44	Yes	Yes	No	Yes	Yes	No	Yes	Yes	Yes
Neumark- Sztainer et al. ³⁷	Yes	Yes	Yes	No	Yes	No	More whites in intervention; more Asians in control	Yes	Yes
Pate et al.38	No	Yes	Yes	No	Yes	No	Yes	Yes	Yes
Sallis et al. ⁴⁷	Yes	Yes	No	No	No	No	Not described	Yes	Yes
Spiegel et al. ³⁹	No	Yes	Yes	No	NA	No	Not described	No	Yes
Stock et al.40	No	Yes	No	No	NA	Yes	Yes	No	Yes
Webber et al. ⁴⁹	Yes	Yes	Yes	Yes	Yes	Yes	Not described	No	Yes

Note: NA = not applicable.

*Inclusion and exclusion criteria.

†Theoretical basis for the intervention reported.

‡Done during the study design stage.

 \S Statistical analysis reproducibly described.

¶Attrition rate 9% in the intervention group, 21% in the control group.